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添付公開書類:
— 国際調査報告書

2文字コード及び他の略語については、定期発行される
各PCTガゼットの巻頭に掲載されている「コードと略語
のガイダンスノート」を参照。

(54) Title: METHOD FOR PRODUCING ACETIC ACID

(54) 発明の名称: 酢酸の製造方法

(57) Abstract: A method for producing acetic acid wherein methanol and carbon monoxide is continuously reacted in the presence of a rhodium catalyst, an iodide salt, methyl iodide, methyl acetate and water, to produce acetic acid at a formation rate of 11 mol/L·hr or more, while suppressing an acetaldehyde concentration in a liquid reaction mixture to 500 ppm or less, characterized in that the reaction carried out under the condition wherein the partial pressure of carbon monoxide in the gas phase of the reactor is 1.05 MPa or more or the concentration of methyl acetate in the liquid reaction mixture is 2 weight % or more, to thereby suppress the rate of formation of acetaldehyde to 1/1500 of that of acetic acid or less.

(57) 要約: 酢酸の製造方法は、ロジウム触媒、ヨウ化物塩、ヨウ化メチル、酢酸メチル及び水の存在下、連続的にメタノールと一酸化炭素とを反応させ、反応液中のアセトアルデヒド濃度を500ppm以下に保ちつつ、酢酸を11mol/L・hr以上の生成速度で製造する方法であって、反応器気相部の一酸化炭素分圧が1.05MPa以上の条件、又は反応液中の酢酸メチル濃度が2重量%以上の条件で反応を行い、アセトアルデヒドの生成速度を酢酸の生成速度の1/1500以下に維持することを特徴とする。

WO 2006/070632 A1

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 2004-277297 A (Chiyoda Corp.), 07 October, 2004 (07.10.04), Claims; Par. No. [0012]; examples; table 1 & WO 2004/080941 A2	1-7 8-10
X Y	JP 2003-508363 A (Celanese International Corp.), 04 March, 2003 (04.03.03), Claims; table 1; Par. No. [0041]; examples; table 2 & WO 2001/016070 A1 & US 6303813 B1	1-7 8-10
X Y	JP 2002-508759 A (BP Chemicals Ltd.), 19 March, 2002 (19.03.02), Claims; examples; page 12, lines 5 to 6 & WO 98/57918 A1	1-7 8-10

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☐ See patent family annex.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 8-20555 A (Daicel Chemical Industries, Ltd.), 23 January, 1996 (23.01.96), Claims; examples & US 5625095 A & EP 687662 A2	8-10